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Stocks Portfolio Manager

Description

Stocks Portfolio Manager for Investors on the move for tracking your stock portfolio and manage your quotes with social features.

Portfolio Management & Tracking
- Manage and track multiple portfolios with beautiful snapshot view, transactions details, capital gain and quotes charts
- Enter your trades, dividends, splits and bonus
- 2 different Android Widgets (Summary and Details) at your command
- This app can be used anonymously without an account.

* Note: App requires active internet connection at all times. There is no offline mode.

Data Supported: Stock Quotes, Open, Day High, Day Low, Previous Close, 1-Day Change, volume, P/E, 1 Year Change, 2 Years graph

Stock Markets Supported: NSE (National Stock Exchange) and BSE (Bombay Stock Exchange)

Currency Supported: INR

Intended User

This app targets the investors who have invested their money in Indian market (BSE or NSE indices)

Features

Key features of this app:
- Manage and track multiple portfolios with beautiful snapshot view, transactions details and capital gain
- Enter your trades, dividends, splits and bonus
- 2 different widgets (Summary widget and Collection widge)
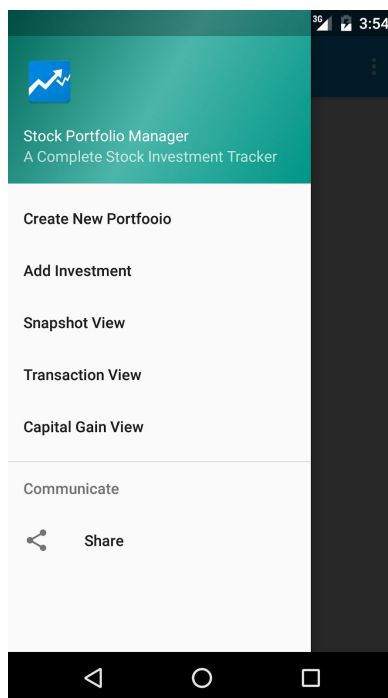
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1: Welcome
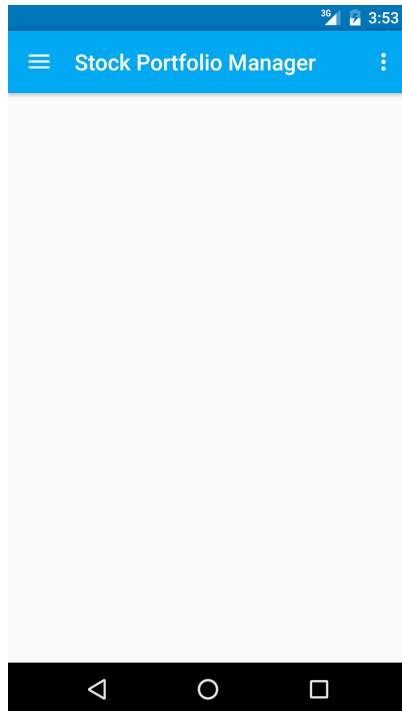
This screen appears when user open the app for first time. It contains welcome message and app description.

Screen 2: Navigation Drawer

Screen 3: Create New Portfolio

Screen 4: Add new investment to portfolio

Screen 5: Snapshot

Screen 6: Context menu for investment

Screen 7: Transaction

Screen 8: Context menu for transaction

Screen 9: Capital Gain

Screen 10: Setting to change portfolio name

Screen 11: Select Portfolio
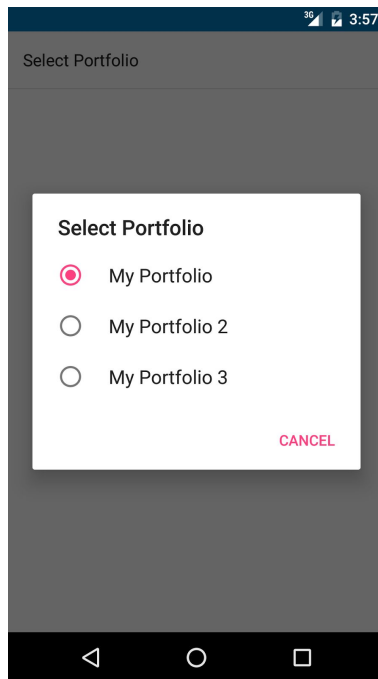
Screen 12: Selected Stocks View
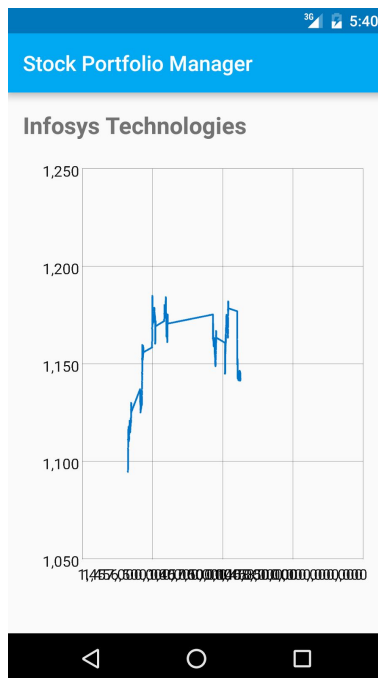
Key Considerations

How will your app handle data persistence?
All portfolio details and investments and their transactions will be persistently stored using SQLite table database. Content provider will be used to show different views e.g. snapshot, transactions details and capital gain.

Describe any corner cases in the UX.
The initial screen is Create a new portfolio. Then user has to set up his/her investments. Then user can view snapshot view, transactions details and capital gain.

Snapshot:
This view shows current balance unit and its market value of every stock of selected portfolio. Portfolio can be changed through setting menu if user has multiple portfolio.

Transaction:
User can view all posted transactions e.g. purchase, sell, dividends, splits and bonuses.

Capital Gain:
This view contains realised and unrealised gain for each investments.

Describe any libraries you'll be using and share your reasoning for including them.
- retrofit to fetch and handle access to HTTP APIs
- glide to cache and show images
- gms to show notification
- recyclerview to show list of investment and transactions
- design to use material design in this app and make ui awesome
- graphview to create the line graph for selected stocks

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Setup tortoise repository

- Create a new blank project
- Add main activity with navigation drawer
- Change navigation menu

Task 2: Implement UI for Each Activity and Fragment

- Create Main Activity to show navigation drawer and on navigate show fragmeny
- Create all fragments required to implement all navigation menus
  - CreatePortFragment
  - AddInvestmentFragment
  - SnapshotFragment
  - TransactionFragment
  - CapitalGainFragment
- Create db to store data and setup content provider to show data to recycler view
- Create RecycleViewAdapter for snapshot, transaction and capital gain
  - SnapshotRecyclerViewAdapter
  - TransactionRecyclerViewAdapter
  - CapitalGainRecyclerViewAdapter
- Create Activity to show latest quote and price graph of selected stock

Task 3: Widget

- Create widget to show portfolio summary
- Create collection of widget to show snapshot view of selected portfolio

Task 4: Tablet UI

Create Fragments for Tablet
- SnapshotFragment
- TransactionFragment
- CapitalGainFragment

Task 5: Material Design

Implement material design to every fragment

Task 6: Notification

Create notification to show the users, if his portfolio value has been changed to 3% or more for one day.

Task 7: Testing

Finally, test all views

Task 8: Udacity Submission

- Create signed .apk
- Submit to Udacity

Task 9: Release

- Request Play Store approval
- Release to play store

Submission Instructions
1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"